Mithilesh Kabadi

Day 7 Practice Problems

Write a program in the following steps
        a. Generates 10 Random 3 Digit number.
        b. Store this random numbers into a array.
        c. Then find the 2nd largest and the 2nd smallest
        element without sorting the array


```
n=0
num[((n++))]=$(($RANDOM %999 + 100));
num[((n++))]=$(($RANDOM %999 + 100));
num[((n++))]=$(($RANDOM %999 + 100));


for i in ${num[@]}
do
        echo "$i"
done
```


Program to sort the array and then find the 2nd largest and the 2nd smallest element.

```
n=0
new[((n++))]=$(($RANDOM %999 + 100));
new[((n++))]=$(($RANDOM %999 + 100));
new[((n++))]=$(($RANDOM %999 + 100));


size=${#new[@]}

for((i=0; i<=$(($size-1)); i++))
do
  for((j=0; j<=$(($size-1)); j++))
  do
```

```bash
            if((${new[j]} > ${new[$((j+1))]}));
            then
             temp=${new[$j]}
             new[$j]=${new[$((j+1))]}
             new[$((j+1))]=$temp
              fi
      done
done
echo "Total elements : ${new[@]}"
echo "Second Largest Number: ${new[size-2]}"
```

Write a Program to show Sum of three Integer adds to ZERO

```bash
function totalSum
{
      sum=0
      for i in ${a[@]};
      do
          sum=$(($sum + $i))
      done
      echo $sum
}

a=(5 3 4)
echo -n "Sum: "
totalSum ${a[@]}
```